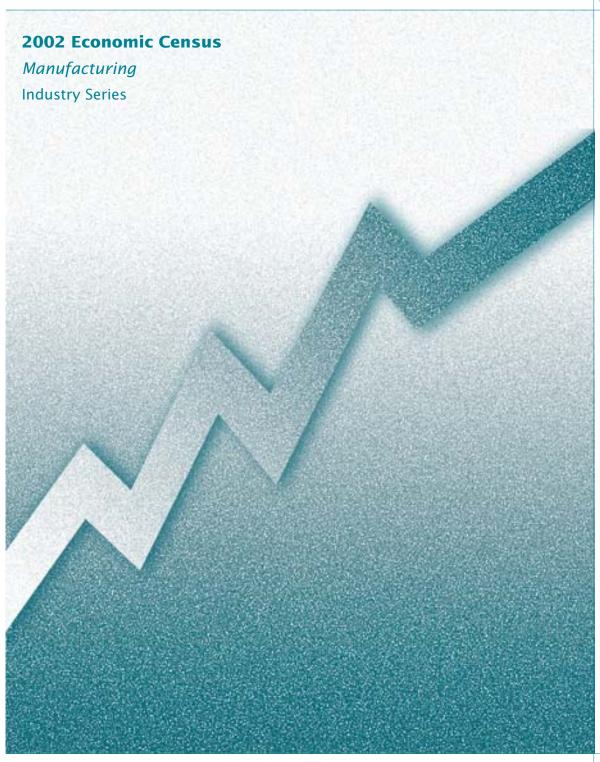
Surgical and Medical Instrument Manufacturing: 2002

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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All estab- lish- ments ³	All em	ployees	Pro	duction worl	kers		Total		tures
Industry and year ¹	Com- panies ²		Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)		
339112, Surgical and medical instrument											
manufacturing2002	1 216	1 352	103 131	4 581 564	57 663	115 325	1 784 879	15 079 751	6 541 030	21 819 423	
2001	N	N.	105 417	4 764 252	60 568	112 993	1 776 974	16 880 557	6 783 831	23 559 230	1 066 011
2000	N	N	103 653		58 273	112 101	1 661 079	16 317 796	5 717 279	21 778 210	919 264
1999	N	N	105 956	4 294 525	61 968	118 684	1 724 690	15 307 724	5 500 276	20 624 416	832 356
1998	N	N	108 837	4 257 081	65 163	124 613	1 736 104	14 311 821	5 673 796	19 940 659	712 223
1997	1 456	1 594	105 016	4 015 772	63 366	124 251	1 665 856	13 148 075	5 145 141	18 292 919	721 701

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishm		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
339112, Surgical and medical instrument manufacturing												
United States. California Colorado Connecticut Florida Illinois Indiana Iowa Kansas Maryland Massachusetts	2 2 1 3 1 5 - 6 2	1 352 264 33 39 75 45 39 8 7 24	601 116 15 19 32 16 18 3 3 9	103 131 20 682 2 366 4 273 6 627 1 605 3 016 364 255 1 118 8 361	4 581 564 1 016 163 97 981 196 764 266 911 57 928 104 284 10 013 9 490 39 704 397 213	57 663 9 078 1 182 2 631 4 279 1 031 2 193 305 176 819 4 370	115 325 18 388 2 535 5 469 7 888 2 121 4 420 621 322 1 682 8 787	1 784 879 298 341 34 889 90 053 113 191 29 468 63 373 6 505 5 270 24 612 130 995	15 079 751 3 117 540 565 536 518 268 848 873 174 370 225 437 27 017 189 287 101 441 1 293 366	6 541 030 1 466 892 99 795 404 370 293 151 74 546 158 647 12 662 13 226 42 520 505 425	21 819 423 4 607 015 662 381 1 043 566 1 135 679 247 536 382 310 39 603 213 063 142 985 1 836 135	7930 691 7241 080 717 175 730 735 771 591 719 569 77 734 7788 72 005 721 125 763 296
Michigan. Minnesota Missouri New Hampshire New Jersey New York North Carolina Ohio Oklahoma Oregon	5 2 3 3 2 3 3 2 3 2 2 2	32 66 26 18 59 69 31 45 8	13 34 12 8 23 32 16 21 5	1 260 6 669 1 527 1 661 2 724 6 872 2 736 3 217 355 325	49 419 355 633 54 484 72 576 117 803 270 103 103 674 129 491 12 946 15 179	792 2 775 994 1 023 1 508 4 157 1 922 1 956 226 160	1 609 5 647 1 399 2 085 3 023 8 121 4 012 4 025 445 321	23 532 95 388 27 516 35 737 43 917 109 081 53 633 54 726 5 676 5 731	261 833 718 545 178 132 213 591 484 275 684 321 502 376 325 921 35 191 46 043	85 413 306 149 55 369 103 470 141 159 409 435 178 595 121 758 50 616 12 769	346 039 1 047 832 235 233 303 908 631 788 1 091 528 680 801 457 532 85 721 57 849	r10 550 r63 998 r6 185 r15 718 r17 535 r49 136 r25 173 r19 458 r1 560 r4 706
Pennsylvania Rhode Island Tennessee Texas Utah Virginia Washington Wisconsin	3 1 1 2 3 1	72 7 23 59 19 7 34 27	33 4 9 23 14 4 12	8 555 226 559 3 797 2 883 346 900 1 735	385 508 9 576 18 011 160 865 133 335 11 245 46 603 83 907	4 567 142 453 2 468 1 523 259 385 904	9 476 268 925 4 782 3 143 493 755 1 842	187 751 4 206 11 474 76 314 38 643 6 565 11 807 31 683	1 152 107 19 127 107 206 477 710 435 454 45 564 157 102 355 460	489 554 8 071 33 104 265 329 160 915 31 519 60 814 175 217	1 633 859 27 662 140 337 741 631 594 672 76 220 218 108 529 255	r65 825 r930 r3 643 r25 090 r31 475 r1 249 r8 190 r13 853

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

Includes establishments with payroll at any time during the year.

Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
339112, Surgical and medical instrument manufacturing	
Companies ¹ number	1 216
All establishments ²	1 352 751 363 238
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	103 131 5 588 684 4 581 564 1 007 120
Production workers, average for year number. Production workers on March 12 number. Production workers on May 12 number. Production workers on August 12 number. Production workers on November 12 number.	57 663 58 004 58 260 57 206 57 078
Production worker hours	115 325 1 784 879
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	6 541 030 5 304 602 978 147 15 485 104 874 137 922
Quantity of electricity purchased for heat and power	1 587 263 D
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	21 819 423 19 199 632 1 271 753 1 348 038 1 137 972 72 529 137 537
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	94 20 482 718 19 199 632 1 283 086
Coverage ratiopercent.	94
Value added \$1,000.	15 079 751
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	2 729 352 1 121 498 534 223 1 073 631
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	2 476 789 944 769 512 310 1 019 710
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use. \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	'8 047 899 '930 691 '186 698 '743 993 '15 945 '98 266 '629 782 '596 929 '8 381 661
Depreciation charges during year\$1,000	⁷ 691 175
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	249 480 157 452 92 028
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	1 963 280 80 90 181 59 412 112 463 23 836 120 729 42 130 10 868 108 576 60 118

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on 2002 Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	rs		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
339112, Surgical and medical instrument manufacturing											
All establishments Establishments with — 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 5 to 99 employees 50 to 99 employees 250 to 499 employees 250 to 499 employees 500 to 999 employees 1,000 to 2,499 employees 1,000 to 2,499 employees 2,500 employees or more	9 8 6 3 2 1 1 2	1 352 388 178 185 219 144 141 47 38 12	103 131 839 1 180 2 503 6 916 10 037 22 033 16 803 25 181 17 639	4 581 564 32 912 51 198 109 466 308 229 429 822 954 610 734 136 1 201 740 759 451	57 663 528 701 1 443 3 877 5 883 12 637 10 141 13 571 8 882	115 325 900 1 374 2 752 7 701 11 904 25 424 19 969 27 818 17 483	1 784 879 14 946 21 766 44 627 116 351 175 451 365 390 314 737 444 658 286 953	93 750 163 808 337 505 779 555 1 214 593 3 141 097 2 777 138 4 009 144 2 563 161	6 541 030 32 622 53 342 113 901 314 496 441 240 1 272 599 962 956 2 153 830 1 196 044	21 819 423 128 702 216 636 449 351 1 107 131 1 673 061 4 428 705 3 743 746 6 193 223 3 878 865	'930 691 '3 793 '5 756 '16 201 '40 384 '73 351 '194 621 '142 496 '226 199 '227 890
Administrative records ⁴	9	606	3 592	152 799	2 206	4 248	66 882	471 160	156 061	627 221	^r 18 834

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
		All estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
339112	Surgical and medical instrument manufacturing	1 352	103 131	4 581 564	57 663	115 325	1 784 879	15 079 751	6 541 030	21 819 423	r930 691
3391120	Surgical and medical instruments	1 352	103 131	4 581 564	57 663	115 325	1 784 879	15 079 751	6 541 030	21 819 423	r930 691

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
339112	Surgical and medical instrument manufacturing	N N	X	X X	20 482 718 17 367 955
3391120	Surgical and medical instruments	N N	X	X	20 482 718 N
33911201	Orthopedic and surgical instruments	N N	X X	X X	4 662 300 N
3391120101	Surgical instruments, including suture needles and ear, eye, nose, and throat instruments	123	X	x	3 667 242
3391120106	Orthopedic instruments, excluding ear, eve. nose, and	N	X	X	N
33911202	throat instruments	47 N	X X	X X	995 058 N
33911202	electromedical diagnostic apparatus	N N	X	X	3 030 758 N
3391120211	Medical and surgical metabolism and blood pressure diagnostic apparatus, excluding electromedical diagnostic				
3391120216	apparatus	22 N	X	X	298 466 N
	optical diagnostic apparatus), excluding electromedical diagnostic apparatus2002.	81 N	X	X	2 732 292
33911203	1997 Medical and surgical syringes and hypodermic needles	N N N	X	X X X	1 545 501 N
3391120321	Medical and surgical syringes	23 N	X X X	X X	1 192 863 N
3391120326	Medical and surgical hypodermic needles	19 N	X	X	352 638 N
33911204	Medical and surgical blood transfusion and IV equipment, including blood donor kits	N N	X	×	1 313 599 N
3391120431	Medical and surgical blood transfusion and IV equipment, including blood donor kits	41	x	×	1 313 599
33911205	1997	N N N	X X X	X X X	N 2 720 139 N
3391120536	Medical and surgical catheters	75 N	X X X	X X X	2 720 139 N
33911206	Other medical and surgical apparatus and instruments, excluding parts	N	Х	x	4 498 071
3391120641	Medical and surgical anesthetic apparatus and instruments	N 22	X X	x x	N 681 512
3391120646	Medical and surgical bone nails, plates, and screws, and	N	Х	X	N
3391120651	other internal fixation devices	40 N 13	X X X	X X X	1 275 962 N 212 684
3391120671	Other medical and surgical apparatus and instruments,	N	x	x	212 004 N
	excluding parts	133 N	X	X X	2 327 913 N
33911207	Parts for medical and surgical apparatus and instruments	N N	X	X	942 301 N
3391120766	Parts for medical and surgical apparatus and instruments	100 N	X X X X X	X X X	942 301 N
3391120Y 3391120YWW	Surgical and medical instruments, nsk, total	N N	X	X	1 770 049 N
	nonadministrative-record establishments	N N	X X	X X	1 180 412 N
3391120YWY	Surgical and medical instruments, nsk, for administrative- record establishments	N N	X	××	589 637 N

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
339112	Surgical and medical instrument manufacturing		
00900001	Total materials	X	5 304 602
33441200	Printed circuit boards (without inserted components) for electronic circuitry	X X X	4 358 602 9 561
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted	X	N
	electronic components)	X X	53 164 N
001900B7	Resistors, capacitors, transformers, electron tubes, semiconductors, and other electronic components	v	100 052
00500404	1997	ŝ	265 140
33593101	Current-carrying wiring devices	X X X X X	20 088 N
33531201	Electric motors and generators	X X	18 459 N
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products	X	31 229 65 515
332000A7	Metal boilers, condensers, and parts (excluding forgings)	χ̈́	98 313 N
33151001	Iron and steel castings (rough and semifinished)	X X X X X	25 197
	1997	X	5 651
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished)	X	14 985 12 012
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products)	X X X	48 111
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal		78 204
	products)	X X	22 407 25 056
31323000	Nonwoven fabrics	X	11 728 N
31321017	Broadwoven fabrics. 2002. 1997.	X	4 630 N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	x x x x x	165 406 188 194
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes	X	282 859
32610009	1997 Fabricated plastics products	ŝ	207 371 557 524
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets)	X X X X X	404 084 60 780
	1997	Х	58 965
33910000	Surgical and orthopedic supplies (including sutures and hypodermic needles for further manufacture or assembly)	x	1 070 988
332000A9	Sheet metal products (excluding stampings)	X X X X X	632 932 31 962
	1997	ŝ	N
32552001	Adhesives and sealants	X	21 240 9 313
32221001	Paperboard containers, boxes, and corrugated paperboard	X X	100 576 130 329
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated paperboard)		36 868
00970099	All other materials and components, parts, containers, and supplies	X	44 839 1 272 864
00971000	Materials, ingredients, containers, and supplies, nsk	X X X X X	1 029 445 1 245 611
	1997.	â	1 201 552

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.